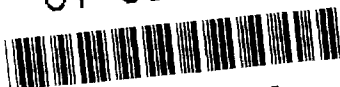


01-03-2002

PATENTS ONLY

TO



101932336

PATENTS

Our File No. 9281-4251

Please attach the attached original document or copy thereof.

1. Names of Parties conveying an interest:

Toru Takahashi
Hisayuki Yazawa
Hideki Gochou
Kiyoshi Kobayashi
Minoru Yamada
Kiyoshi Sato
Toshinori Watanabe

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of Party receiving an interest:

Name: ALPS Electric Co., Ltd.
Internal Address:
Street Address: 1-7 Yukigaya, Otsuka-c
City: Ota-ku, Tokyo
State/Zip: Japan

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment☐ Change of Name

Other:

☐ Security Agreement☐ Merger

Execution Date: November 14, 2001

Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

If this document is being filed together with a new application, the execution date of the application is:

November 14, 2001

Date

Patent Application No.(s)

Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610
(312)321-4200

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40

☒ Enclosed☐ Authorized to be charged to Deposit Account No. 23-19258. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

00757

PATENT TRADEMARK OFFICE

DO NOT USE THIS SPACE

Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gustavo Siller, Jr., 32,305
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

Rev. Oct-97

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MFC:581

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PATENT
REEL: 012406 FRAME: 0177

ASSIGNMENT

WHEREAS, Toru Takahashi, Hisayuki Yazawa, Hideki Gochou,
Kiyoshi Kobayashi, Minoru Yamada, Kiyoshi Sato and Toshinori Watanabe,
hereinafter called the "Assignors", have made the invention described in the United
States patent application entitled PERPENDICULAR MAGNETIC RECORDING HEAD HAVING MAIN
MAGNETIC POLE LAYER FORMED ON HIGH-FLATNESS SURFACE, AND METHOD OF MANUFACTURING THE HEAD,
executed by Assignors on the same date as this Assignment;

WHEREAS, ALPS ELECTRIC CO., LTD., a corporation organized and
existing under the laws of Japan, having a place of business at 1-7 Yukigaya, Otsuka-
cho, Ota-ku, Tokyo, Japan, hereinafter called the "Assignee", desires to acquire the
entire right, title and interest in and to the invention and the patent application
identified above, and all patents which may be obtained for said invention, as set forth
below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and
other valuable and legally sufficient consideration, the receipt of which by the
Assignors from the Assignee is hereby acknowledged, the Assignors have sold,
assigned and transferred, and by these presents do sell, assign and transfer to the
Assignee, the entire right, title and interest for the United States in and to the
invention and the patent application identified above, and any patents that may issue
for said invention in the United States; together with the entire right, title and interest
in and to said invention and all patent applications and patents therefor in all
countries foreign to the United States, including the full right to claim for any such
application all benefits and priority rights under any applicable convention; together
with the entire right, title and interest in and to all continuations, divisions, renewals
and extensions of any of the patent applications and patents defined above; to have
and to hold for the sole and exclusive use and benefit of the Assignee, its successors
and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the
Assignors' legal representatives, that the Assignors will assist the Assignee in the
prosecution of the patent application identified above; in the making and prosecution
of any other patent applications that the Assignee may elect to make covering the
invention identified above; in vesting in the Assignee like exclusive title in and to all
such other patent applications and patents; and in the prosecution of any interference
which may arise involving said invention, or any such patent application or patent;
and that the Assignors will execute and deliver to the Assignee any and all additional
papers which may be requested by the Assignee to carry out the terms of this
Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: November 14, 2001

Toru Takahashi

Inventor: Toru Takahashi

WITNESSED:

DATE: November 14, 2001

Atsushi Fakanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Hisayuki Yazawa

Inventor: Hisayuki Yazawa

WITNESSED:

DATE: November 14, 2001

Atsushi Fakanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Hideki Gochou

Inventor: Hideki Gochou

WITNESSED:

DATE: November 14, 2001

Atsushi Fakanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Kiyoshi Kobayashi

Inventor: Kiyoshi Kobayashi

WITNESSED:

DATE: November 14, 2001

Atsushi Fukanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Minoru Yamada

Inventor: Minoru Yamada

WITNESSED:

DATE: November 14, 2001

Atsushi Fukanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Kiyoshi Sato

Inventor: Kiyoshi Sato

WITNESSED:

DATE: November 14, 2001

Atsushi Fukanashi

DATE: November 14, 2001

Nobuhiko Hayashi

DATE: November 14, 2001

Toshinori Watanabe

Inventor: Toshinori Watanabe

WITNESSED:

DATE: November 14, 2001

Atsushi Fukanashi

DATE: November 14, 2001

Nobuhiko Hayashi